

## ABSTRACT

A beam alignment system according to a first embodiment of the present invention is disclosed. The beam alignment system includes a signal detector that is positioned in a path of a beam carrying a traffic signal having a first wavelength and an alignment signal having a second wavelength. The signal detector allows a signal having the first wavelength to be transmitted and takes an intensity measurement of the alignment signal. The beam alignment system includes a signal alignment unit that compares the intensity measurement of the alignment signal to determine whether the alignment signal is aligned on the signal detector. The beam alignment unit includes a signal director that adjusts the path of the beam on the signal detector in response to the determination of the signal alignment unit.

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